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DERWENT-WEEK: 199005

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TITLE: Servo-tracks are provided in magnetic
storage disks - by implantation of ions e.g. gold, silver
modifying magnetic properties locally followed by
magnetisation

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PRIORITY-DATA: 1988DD-0314092 (March 28, 1988)

PATENT-FAMILY:

PUB-NO	PAGES	MAIN-IPC	PUB-DATE	LANGUAGE
DD 271191 A	004	N/A	August 23, 1989	N/A

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
DD 271191A	March 28, 1988	N/A	1988DD-0314092

INT-CL (IPC): C23C014/48, G11B005/84

ABSTRACTED-PUB-NO: DD 271191A

BASIC-ABSTRACT:

The implantation of ions, pref. 1 at.% in the implanted region, into a magnetic storage layer occurs in the layer close to the substrate, pref. less than 1/3 of 1/4 of the layer thickness from the substrate, and increases the coercitive field strength pref. by 30%. In the implanted regions

servo-tracks are later
formed magnetically. The implanted ions are insoluble in Co
and may be one of
the following: Au, Ag, Pb, Bi or Cd, or may form with Co a
non-magnetic cpd.
and cause a significantly increased coercitive field
strength, e.g. Si or P.
The implantation pref. uses a mask or a focussed ion-beam to
define the
modified areas.

USE/ADVANTAGE - The method is used to provide a tracking
method for a
disk-reading head which requires only a slight modification
of a standard
memory storage disk. The accuracy of formation of the tracks
is improved.

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: L03 M13 T03

CPI-CODES: L03-B05B; L03-B05D1; M13-H;

EPI-CODES: T03-A02; T03-N01;

----- KWIC -----

Title - TIX (1):

Servo-tracks are provided in magnetic storage disks - by
implantation of
ions e.g. gold, silver modifying magnetic properties locally
followed by
magnetisation

Standard Title Terms - TTX (1):

SERVO TRACK MAGNETIC STORAGE DISC IMPLANT ION GOLD SILVER
MODIFIED MAGNETIC
PROPERTIES LOCAL FOLLOW MAGNETISE